

# PIER –Environmental Area Research to Support Avian Siting Guidelines for Wind Facilities

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## PIER-EA Research Provides Information to Help Guide Policy



- Research coordinated but independent of guideline development
- Policy analysis and research operate under vastly different timelines
- Research results will be valuable for future revisions/updates

# Provide empirical foundation for Guidelines, Monitoring Programs, and Mitigation

- R&D Committee Allocated \$1M Program for 2006/07
- Goal:
  - Inform wind siting/permitting guideline policy and stakeholders.

#### Objectives:

- Facilitate appropriate siting of wind development
- Improve methods and metrics
- Assess effectiveness of mitigation measures





## There are several key questions





- What is the threshold of bird use and behavior that triggers a problem?
- How well does preconstruction analysis predict post construction impacts?
- What mitigation could be effective and how do we measure success?





#### **Potential Areas of Research**

- What are the optimal distances and time intervals for assessing bird use and behavior?
  - Can observations be improved with instrumentation?
  - What are the tradeoffs between cost and accuracy/precision
- How can we improve upon estimating impacts?
  - What are optimal search intervals, scavenger detection protocols, monitoring duration?
- What are the best methods and instruments for detecting nocturnal activity?



### Roadmap Process Establishes Research Agenda

#### Roadmap objectives:

- Provide forum for stakeholders to participate in framing research agenda
- Relative to selected issues, identify gaps in ongoing research
- Facilitate collaborations with other research institutions, agencies, and operators
- Define short, mid, and long-term goals, timeframes, budgets, and activities
- Balance timeframes, risk, and provide the greatest public benefit



### Proposed Timeline for Developing Roadmap

- Current: Staff engaged in guideline development, reviewing literature, consulting experts.
- September: Prepare draft list of research needs and distribute
- October: Scoping Workshop to discuss, add, delete, and prioritize needs
- January: Release Draft Roadmap
- February: Workshop
- March: Final Roadmap
- 3rd Q 07: Begin Research





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